

Title (en)

OPTICAL FIBRE CABLE WITH SINGLE STRENGTH MEMBER UNIT IN CABLE OUTER JACKET

Title (de)

FASEROPTISCHES KABEL MIT VERSTÄRKUNGSELEMENT INNERHALB EINER ÄUSSEREN UMHÜLLUNG

Title (fr)

CABLE DE FIBRE OPTIQUE AYANT UNE UNITE A UN SEUL ELEMENT DE RESISTANCE DANS UNE GAINÉ EXTERNE DE CABLE

Publication

**EP 1203254 B1 20071107 (EN)**

Application

**EP 00975174 A 20000720**

Priority

- US 0019766 W 20000720
- US 35942799 A 19990722

Abstract (en)

[origin: US6137936A] An optical fiber cable has a core with a bore which loosely contains optical fibers and includes a single strength member embedded in an outer jacket which surrounds the core. The strength member allows for relative ease of bending of the cable in directions other than the bending directions in the plane of minimum bending energy for the cable, such as bending in the plane of maximum bending energy (MAX-BP) for the cable, and provides that the neutral surface associated with bending of the cable in the MAX-BP is outside the bore core and within the outer jacket. The single strength member furthermore provides tensile strength and antibuckling properties to the cable during storage and in expected installations, including an aerial installation. The outer jacket is releasably coupled to the core to provide ease of access to the optical fibers contained within the core bore.

IPC 8 full level

**G02B 6/44** (2006.01)

CPC (source: EP US)

**G02B 6/4422** (2013.01 - EP US); **G02B 6/4429** (2013.01 - EP US); **G02B 6/4433** (2013.01 - EP US); **G02B 6/44384** (2023.05 - EP)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**US 6137936 A 20001024**; CA 2314317 A1 20010122; CA 2314317 C 20100928; DE 60037026 D1 20071220; DE 60037026 T2 20080821; EP 1070975 A1 20010124; EP 1203254 A1 20020508; EP 1203254 B1 20071107; ES 2296657 T3 20080501; WO 0107953 A1 20010201

DOCDB simple family (application)

**US 35942799 A 19990722**; CA 2314317 A 20000721; DE 60037026 T 20000720; EP 00306175 A 20000720; EP 00975174 A 20000720; ES 00975174 T 20000720; US 0019766 W 20000720